BRITISH PHYCOLOGICAL JOURNAL

CONTENTS AND INDEX FOR VOLUME 9

ODICAL
.564

Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

https://archive.org/details/european-journal-of-phycology_1974_9_indexcontents

BRITISH PHYCOLOGICAL JOURNAL

CONTENTS AND INDEX FOR VOLUME 9

The Council of the British Phycological Society wish it to be understood that they do not accept responsibility for the accuracy of statements published in the *Journal*, excepting when those statements are contained in an official report of the Council.

Number 1, pp. 1–109, 13 March 1974
Number 2, pp. 111–224, 12 June 1974
Number 3, pp. 225–332, 11 September 1974
Number 4, pp. 333–436, 31 December 1974

	Page
BELCHER, J. H. *Chrysosphaera magna* sp. nov., a new coccoid member of the Chrysophyceae	139
BELCHER, J. H., PENNICK, N. C. and CLARKE, K. J. On the identity of *Asteromonas propulsum* Butcher	101
BELLINGER, E. G. A note on the use of algal sizes in estimates of population standing crops	157
BENSON-EVANS, K., *see* MCLEAN and BENSON-EVANS	83
BIRD, C. J., *see* EDELSTEIN, BIRD and MCLACHLAN	247
BROWN, R. M., JR, *see* OTT and BROWN	111
BROWN, R. M., JR, *see* OTT and BROWN	333
CLARKE, K. J., *see* BELCHER, PENNICK and CLARKE	101
CMIECH, H. A., *see* REES, LEEDALE and CMIECH	273
CRAWFORD, R. M. The auxospore wall of the marine diatom *Melosira nummuloides* (Dillw.) C. Ag. and related species	9
CROCKET, L. J., *see* LEE, CROCKETT, HAGEN and STONE	407
DARO, M. H., *see* MOMMAERTS-BILLIET, MOMMAERTS and DARO	297
DAWSON, P. A. Observations on diatom species transferred from *Gomphonema* C. A. Agardh to *Gomphoneis* Cleve	75
DREW, E. A. and ROBERSTON, W. A. A. Direct observation of *Desmarestia dresnayi* Lamour. ex Laman in the British Isles and in the Mediterranean	195
EDELSTEIN, T., BIRD, C. J. and MCLACHLAN, J. Tetrasporangia and gametangia on the same thallus in the red algae *Cystoclonium purpureum* (Huds.) Batt. and *Chondria baileyana* (Mont.) Harv.	247
EVANS, J. H., *see* HAFFNER and EVANS	255
EVANS, J. H., *see* HAFFNER and EVANS	261
FAY, P., *see* KULASOORIYA and FAY	97
FOY, R. H., *see* SMITH and FOY	239
GOMEZ, M. P., HARRIS, J. B. and WALNE, P. L. Studies of *Euglena gracilis* in aging cultures. I. Light microscopy and cytochemistry	163
GOMEZ, M. P., HARRIS, J. B. and WALNE, P. L. Studies of *Euglena gracilis* in aging cultures. II. Ultrastructure	175
GORDON-MILLS, E. M. and WOMERSLEY, H. B. S. The morphology and life history of *Mazoyerella* gen. nov. (*M. arachnoidea* (Harvey) comb. nov.)—Rhodophyta, Ceramiaceae—from Southern Australia	127

GUIRY, M. D.
The occurrence of the red algal parasite *Halosacciocolax lundii* Edelstein in Britain 31

GUIRY, M. D. and IRVINE, L. M.
A species of *Cryptonemia* new to Europe 225

HAFFNER, G. D. and EVANS, J. H.
Determination of seston size distribution with Coulter Counter models A and B and the two tube technique 255

HAFFNER, G. D. and EVANS, J. H.
Relation of light penetration to particle distribution in vertically mixed lacustrine environments 261

HAGEN, J., *see* LEE, CROCKETT, HAGEN and STONE 407

HARITONIDIS, S., *see* TSEKOS and HARITONIDIS 399

HARRIS, J. B., *see* GOMEZ, HARRIS and WALNE 163

HARRIS, J. B., *see* GOMEZ, HARRIS and WALNE 175

HAWORTH, E. Y.
Some problems of diatom taxonomy in Scottish lake sediments 47

HIBBERD, D. J.
Observations on the cytology and ultrastructure of *Chlorobotrys regularis* (West) Bohlin with special reference to its position in the Eustigmatophyceae 37

HIDE, D., *see* HORNSEY and HIDE 353

HOOPER, R. and SOUTH, G. R.
A taxonomic appraisal of *Callophyllis* and *Euthora* (Rhodophyta) 423

HORNSEY, I. S. and HIDE, D.
The production of antimicrobial compounds by British marine algae. I. Antibiotic-producing marine algae 353

HOSHAW, R. W., *see* MILLER and HOSHAW 145

IRVINE, L. M., *see* GUIRY and IRVINE 225

JOHN, D. M. and LAWSON, G. W.
Basispora, a new genus of the Ralfsiaceae 285

KRISTIANSEN, J.
The fine structure of the zoospores of *Urospora penicilliformis*, with special reference to the flagellar apparatus 201

KULASOORIYA, S. and FAY, P.
On the reversibility of heterocyst differentiation 97

LAWSON, G. W., *see* JOHN and LAWSON 285

LEE, J. J., CROCKETT, L. J. HAGEN, J. and STONE, R. J.
The taxonomic identity and physiological ecology of *Chlamydomonas hedleyi* sp. nov., algal flagellate symbiont from the foraminifer *Archais angulatus* 407

LEE, K. W.
Ultrastructure of *Characiochloris acuminata* Lee et Bold 393

LEE, R. E.
Chloroplast structure and starch grain production as phylogenetic indicators in the lower Rhodophyceae 291

LEEDALE, G. F., *see* REES, LEEDALE and CMIECH 273

LITTLER, M. M.
The structure and reproduction of *Dudresnaya lubrica* sp. nov. (Rhodophyta, Dumontiaceae) 149

MCLACHLAN, J., *see* EDELSTEIN, BIRD and MCLACHLAN 247

MCLEAN, R. O.
The tolerance of *Stigeoclonium tenue* Kutz. to heavy metals in South Wales 91

MCLEAN, R. O. and BENSON-EVANS, K.
The distribution of *Stigeoclonium tenue* Kutz. in South Wales in relation to its use as an indicator of organic pollution 83

MILLER, R. D. and HOSHAW, R. W.
Cell width as a taxonomic character with special reference to *Zygnema circumcarinatum* Czurda 145

MOMMAERTS, J. P., *see* MOMMAERTS-BILLIET, MOMMAERTS and DARO 297

Mommaerts-Billiet, F., Mommaerts, P. and Daro, M. H.
Seasonal variation of phytoplankton populations and primary production in the Sluice Dock at Ostend (Belgium) 297
Morris, O. P. and Russell, G.
Inter-specific differences in responses to copper by natural populations of *Ectocarpus* 269
Ott, D. W. and Brown, R. M., Jr.
Developmental cytology of the genus *Vaucheria*. I. Organisation of the vegetative filament 111
Ott, D. W. and Brown, R. M., Jr.
Developmental cytology of the genus *Vaucheria*. II. Sporogenesis in *V. fontinalis* (L.) Christensen 333
Pedersen, P. M.
The life history of *Sorocarpus micromorus* (Phaeophyceae, Ectocarpaceae) in culture 57
Pedersen, P. M.
On the systematic position of *Delamarea attenuata* (Phaeophyceae) 313
Pennick, N. C., *see* Belcher, Pennick and Clarke 101
Pickett-Heaps, J. D.
Cell division in *Stichococcus* 63
Polderman, P. J. G.
Some notes on three algae of salt-marshes on the east coast of England 251
Rees, A. J. J., Leedale, G. F. and Cmiech, H. A.
Paraphysomonas faveolata sp. nov. (Chrysophyceae), a fourth marine species with meshwork body-scales 273
Reynolds, N.
Imantonia rotunda gen. et sp. nov., a new member of the Haptophyceae 429
Robertson, W. A. A., *see* Drew and Robertson 195
Russell, G., *see* Morris and Russell 269
Sarma, Y. S. R. K. and Shyam, R.
On the morphology, reproduction and cytology of two new freshwater dinoflagellates from India 21
Sarma, Y. S. R. K. and Shyam, R.
Lundiella indica gen. et sp. nov., a new member of colonial Volvocales (Chlorophyceae) from India 307
Shubert, L. E. and Trainor, F. R.
Scenedesmus morphogenesis. Control of the unicell stage with phosphorus 1
Shyam, R., *see* Sarma and Shyam 21
Shyam, R., *see* Sarma and Shyam 307
Smith, R. V. and Foy, R. H.
Improved hydrogen ion buffering of media for the culture of freshwater algae 239
South, G. R., *see* Hooper and South 423
South, G. R., *see* Stevenson and South 319
Stevenson, R. N. and South, G. R.
Coccomyxa parasitica sp. nov. (Coccomyxaceae, Chlorococcales) a parasite of giant scallops in Newfoundland 319
Stone, R. J., *see* Lee, Crockett, Hagen and Stone 407
Tözün, B.
Nuclear division in the red algae *Chondria nidifica* and *Chondria tenuissima* 363
Trainor, F. R., *see* Shubert and Trainor 1
Tsekos, I. and Haritonidis, S.
The marine algae of Rhodos Island, Greece 399
Walne, P. L., *see* Gomez, Harris and Walne 163
Walne, P. L., *see* Gomez, Harris and Walne 175
Walsby, A. E.
The extracellular products of *Anabaena cylindrica* Lemm. I. Isolation of a macromolecular pigment–peptide complex and other components 371
Walsby, A. E.
The extracellular products of *Anabaena cylindrica* Lemm. II. Fluorescent substances containing serine and threonine, and their role in extracellular pigment formation 383
Womersley, H. B. S., *see* Gordon-Mills and Womersley 127

ABSTRACTS OF PAPERS

presented to the British Phycological Society 1974

Page

ALLEN, T. F. H. and BARTELL, S. M.
Algal succession vectors: stability and diversity 215

BONEY, A. D.
Cryptochiton sugar-gland carbohydrase activity and the spore floridean starch of *Rhodymenia pertusa* (Post. et Rupr.) J. Ag. 215

CHAMBERLAIN, A. H. L.
Preliminary observations on the unicellular hairs of *Ceramium rubrum* (Huds.) C. Ag. 216

CLOKIE, J. J. P. and NORTON, T. A.
The effects of grazing on the algal vegetation of pebbles from the Firth of Clyde 216

COLIJN, F.
Primary production, biomass and species composition of epipelic diatoms in the eastern part of the Dutch shallows 217

DODGE, J. D. and HART-JONES, B.
The distribution of some planktonic marine dinoflagellates around the British Isles and a comparison with the earlier records 217

DREW, E. A.
Light inhibition of photosynthesis in macro-algae 217

EDWARDS, P.
A cultural assessment of the distribution of *Callithamnion hookeri* (Dillw.) S. F. Gray in nature 218

FARNHAM, W. F. and FLETCHER, R. L.
The occurrence of *Porphyrodiscus simulans* Batt. in the life-history of *Ahnfeltia plicata* (Huds.) Fries 218

FLETCHER, R. L.
Studies on the brown algal families Ralfsiaceae and Scytosiphonaceae 218

GERRATH, J. F.
Observations on variability in the desmid *Triploceras* 218
Two rare flagellates new to North America 219

GRITTEN, M. M.
Studies on epipelic algal communities 219

GUIRY, M. D.
A reappraisal of the genus *Palmaria* Stackhouse 219

HARGREAVES, J. W., LLOYD, J. H. and WHITTON, B. A.
Algal vegetation of highly acidic streams 219

HEYWOOD, P.
Observations on interphase and mitotic nuclei of *Gonystomum semen* (Ehrenb.) Dies. 220

HORNE, A. J. and WRIGLEY, R. C.
Hunting phytoplankton by remote sensing 220

HORNE, A. J.
Three years of algal N_2-fixation in a eutrophic lake; thoughts on the role of phosphorus 220

IRVINE, D. E. G.
The sublittoral vegetation of the Shetland Isles 220

LEX, M. and CARR, N. G.
Intermediary carbohydrate metabolism of differentiating *Anabaena cylindrica* Lemm. 221

LEX, M., DICKSON, A. C. and CARR, N. G.
Metabolic changes associated with heterotrophic growth in *Chlorogloea fritschii* Mitra 221

LINCOLN, A.
Using a fluorometer to measure phytoplankton concentrations at sea and in the laboratory 222

OAKLEY, B. R. and DODGE, J. D.
Mitosis and cell division in *Tetraselmis*, a member of the Prasinophyceae 222

PADDOCK, T. B. B.
The raphe and its supporting structures in the Surirellaceae 222

REYNOLDS, N.
What matters in Arctic phytoplankton 222

RODGERS, A. and STEWART, W. D. P.
Physiological interrelations of the blue–green alga *Nostoc* with the liverworts *Anthoceros* and *Blasia* 223
WALSBY, A. E.
The role of gas vacuoles in the stratification of a population of *Oscillatoria agardhii* var. *isothrix* Skuja in Deming Lake, Minnesota 223
WANDERS, J. B. W. and WANDERS-FABER, A.
Primary productivity of the S.W. coast shallow reef and the N.E. coast brown algae of Curaçao 223

BOOK REVIEWS

Page
Chondrus crispus. M. J. Harvey and J. McLachlan (editors) 331
Contributions to the Systematics of Benthic Marine Algae of the North Pacific. I. A. Abbott and M. Kurogi (editors) 107
Handbook of Phycological Methods: Culture Methods and Growth Measurements. J. R. Stein (editor) 107
Life between Tidemarks on Rocky Shores. By T. A. Stephenson and A. Stephenson 108
The Blue-Green Algae. By G. E. Fogg, W. D. P. Stewart, P. Fay and A. E. Walsby 331
The Fine Structure of Algal Cells. By J. D. Dodge 435